

From: LWOC00 --KR25  
To: 243678 --LOCKOV M2 HRYCIN ANNA LOUISE  
cc: LWOC00 --KR25 KESSLER DAVID

Date and time 04/08/96 11:30:26

From: DAVE KESSLER, 2/65, 74735, Mail Code 01822  
Subject: Lithium

Anna, I talked to Ron Blackman from Crystal Technologies who is very knowledgeable about Lithium since they are the prime producer of this crystal. He is helpfull and you might want to talk to him too. He is at 415 856 7911. I talked to him about the problem of temperature changes which induce charge buildup and hence dust collection. He said that the problem is both at heating and cooling. Mostly cooling. Attempts were made to solve it by contacting it with conducting foil to prevent the charge buildup- but it means potentially scratching the surface. pr use of alpha radiation from Polonium sources. There is a problem of arcing sometimes. If the environment is clean, up to 100 or 120 C is safe. They tried ITO (Indium Tenoxide(?) but it is not easy to coat.

The charge buildup is severe enough that they use it to induct new technician by asking them to take the wafer off and when they do they get jolted to the enjoyment of their colleagues.

Our fist AR samples from Virgo had a severe "coat over dust" problem. We had to ask them to polish the coating off. I talked to Debessis and he said that your ion assist coating may be a natural way to get a hardy coating and to discharge the negatively charged lithium. Also I was wandering about the dip coating that Mark Lellental says he could provide us fot static control.

I am encouraged by your phone call about the recent improvement in the coating. We are running out of alternate options. Please call and I will come over to look at the results and discuss the charge issue and maybe we are ready to coat the "real " pieces I have and try it out. Thanks. Dave.

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